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012757245 **Image available**

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Process for determining vehicle dynamic properties, e.g. such as slip angle

Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE)

Inventor: HART J A C; KORDYS M A; NALWA V S; PINGALI S V G K; HART A C;
PINGALL S; PINGALI S V

Number of Countries: 029 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 945319	A1	19990929	EP 99302038	A	19990316	199948 B
AU 9921335	A	19991007	AU 9921335	A	19990322	199954
CA 2261483	A1	19990925	CA 2261483	A	19990211	200008
JP 11344334	A	19991214	JP 9980780	A	19990325	200009
US 6130706	A	20001010	US 9879321	A	19980325	200052
			US 98149372	A	19980908	
EP 945319	B1	20010530	EP 99302038	A	19990316	200131
DE 69900126	E	20010705	DE 600126	A	19990316	200146
			EP 99302038	A	19990316	

Priority Applications (No Type Date): US 98149372 A 19980908; US 9879321 P 19980325

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 945319	A1	E	16	B60T-008/00	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

AU 9921335	A		G01B-011/26
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CA 2261483	A1	E	B60Q-011/00
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JP 11344334	A	10	G01C-003/06
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US 6130706	A		H04N-007/18	Provisional application US 9879321
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EP 945319	B1	E	B60T-008/00	
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Designated States (Regional): CH DE ES FR GB IT LI

DE 69900126	E		B60T-008/00	Based on patent EP 945319
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Abstract (Basic): EP 945319 A1

NOVELTY - The process involves optically monitoring, in real time, using a camera (64) and a strobe light (62) mounted on the vehicle (60) itself, the movement in one or more camera images of surface-features as the vehicle passes over the surface. The direction in which the surface features are moving at any given time indicates the actual direction of vehicle movement with respect to the orientation of the optical monitoring equipment.

DETAILED DESCRIPTION - The slip angle can be calculated from the actual direction of movement, in combination with the known orientation of the optical monitoring equipment and the direction in which the vehicle is being steered. Features of surface indicate optically distinguishable features that contrast with the majority of the surface, e.g. imperfections, discolorations.

USE - For determining vehicle dynamic properties, especially the slip angle of an automobile.

ADVANTAGE - The determination process is simple and it reliably and more directly measures the dynamics of the vehicle.

DESCRIPTION OF DRAWING(S) - The figure shows an apparatus suitable for use in performing the method.

Vehicle (60)

Strobe light (62)

Camera (64)

pp; 16 DwgNo 9/10

Title Terms: PROCESS; DETERMINE; VEHICLE; DYNAMIC; PROPERTIES; SLIP; ANGLE

Derwent Class: Q12; Q16; Q17; Q18; Q22; S02; T04; W04; X22

International Patent Class (Main): B60Q-011/00; B60T-008/00; G01B-011/26;

G01C-003/06; H04N-007/18

International Patent Class (Additional): B60G-017/015; B60R-021/00;

B60R-027/00; B62D-015/02; G01C-021/20; G01C-022/00; G01M-017/06;

G01P-003/36; G01P-003/38

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): S02-G01A; S02-H; S02-J02A; S02-J02X; T04-D07D;

W04-X01X; X22-X06

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